Exhibit B

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October 9, 2012

Nils B. (Burt) Snell, Esq.
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Suite 400
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Re: Pamela Wicker

Dear Mr. Snell

I am the Chairman of the Department of Pathology at Jacobi Medical Center. I am licensed to practice medicine in the State of New York and I am also a Licensed Laboratory Director by the State of New York. I am certified by the American Board of Pathology in anatomic and clinical pathology. I have academic appointments in the Department of Pathology and the Department of Medicine (Division of Cardiology) at the Albert Einstein College of Medicine, Bronx, N.Y., where I serve as a fully tenured professor. I am a Fellow of the College of American Pathology and the American College of Cardiology. Additional information regarding my training, employment history, qualifications and publications are detailed in my curriculum vitae, which is attached.

I have reviewed pathological materials as set forth below and also attached is a list of materials that I have reviewed in this matter. The following is a description and analysis of the pathological materials pertaining to Mrs. Pamela Wicker and my opinions in this matter.

Pamela Wicker Pathology Materials:

Yale-New Haven: S08-37794, 10/20/08
Uterus & Cervix: Hysterectomy; Enterocoele, Excision

Cervix (1,2): Multiple sclerotic vessels in cervix and endocervix; hyperkeratosis and parakeratosis of cervical mucosa, consistent with prolapse; focal chronic cervicitis with focally intense inflammation; squamous metaplasia of endocervix.
Endocervix (3,4): Sclerotic vessels, and nerves present in endocervical stroma; nerves are focally disordered and disrupted, deep in tissue towards outer (parametrial) surface; many hyalinized vessels with amorphous, hyaline material in adventitia; similar hyaline material around nerves; vessel (artery) with hyaline material in media and intima of vessel. [See below for description of Congo red staining].
Endomyometrium (5,6): Multiple sclerotic vessels with numerous vessels showing hyalinization by amorphous material; elastosis (?) of media and adventitia with resemblance to amyloid; endometrium with cystic atrophy; hyaline material is also in stroma; some vessels are completely occluded; hyaline material also focally involved nerves; no evidence of ischemic changes associated with occluded vessels.

Congo red staining of endomyometrium slides 5,6:

Two unstained slides were stained with Congo red for amyloid analysis. A (+) control revealed staining of tissue known to be affected by amyloidosis (orange-red by light microscopy, with apple-green bi-refringence by polarized microscopy). Staining of the endomyometrium revealed multiple small and large stromal vessels (arteries and veins) with focal deposition of amorphous material in intima/media/adventitia with strong staining by Congo red by routine microscopy. Many vessels affected by fibromuscular sclerosis with luminal stenosis and focal occlusion. Some interstitial staining by Congo red was present, mainly associated with small vessels. Polarized microscopy revealed apple-green bi-refringence consistent with amyloid protein deposition.

Yale-New Haven: S09-4582, (Plaintiff's re-cut, dated 2/14/12)
Vaginal mesh revision (2/20/09)

There were 8 pieces of tissue.

1. Vaginal mucosa with mesh fibers embedded in stroma; fibrosis with unremarkable chronic inflammatory response
2. Mesh fibers/stroma/fibrosis (no mucosa) – central area of recent necrosis with mesh fibers and maturing granulation tissue; ? area of surface erosion with fibrin and red blood cells
3. Piece of tissue with stroma/fibrosis/mucosa - ?erosion, with chronic inflammatory response; central area of stroma with edema and fibrin; adjacent to mucosa without mesh fibers
4. Similar to #3; stroma/mesh fibers/chronic inflammation – focal fibrin and edema; minimal to absent neutrophils (PMNs), with no mucosa

5. Mucosa with deep mesh fibers surrounded by fibrosis and mild-moderate chronic inflammation – mesh approximately 2 mm from surface (entire tissue is 3 mm in thickness), and mesh is at margin
6. Mucosa with small area of mesh associated with chronic inflammation at the edge
7. Piece of tissue with definite erosion, described in more detail below
8. Piece with mucosa and no mesh

The tissues described above were irregular fragments of fibrous tissue with multiple mesh fibers and spaces consistent with mesh falling out of the section. The residual fibers were bi-refringent by polarized light. Lymphocytes, monocytes, scattered eosinophils with focal degranulation, and multinucleated foreign-body giant cells (MNGC) were variably present. In several fragments with mesh, the inflammatory response was not intense or remarkable. There was another segment with focally dense (intense) lymphocytic inflammation immediately below mucosa, but without mesh. The eroded specimen had islands of squamous mucosa with focal necrosis, associated with PMNs, eosinophils, and macrophages. The vaginal mucosa was eroded associated with mesh fibers, PMNs and eosinophils. The necrosis/erosion was acute/recent. The surface erosion had a deeper area of mesh fibers with surrounding necrosis and acute inflammation.

The area of erosion did not appear infected (no bacterial colonies or abscesses; but superinfection can only be ruled out by culture). The mesh was surrounded by fibrous tissue. The inflammatory response was not remarkable or intense, except in the eroded segment the inflammation was acute and chronic. Intense chronic inflammation was focally below the mucosa, in a segment without mesh.

Defense slides (re-cut 9/4/12) showed the area of erosion as above. One piece with mesh fibers, evenly spaced in stroma consistent with fibrosis extending through mesh interstices (approximately 2 mm spaces).

UCLA: S09-12315 (Tissues have multiple ink marking dots)
Removal of mesh from vagina (7/9/09)

Fibrous tissue with multiple clusters of mesh fibers (some residual bi-refringent fibers; others with spaces consistent with fibers fallen out of tissue), surrounded by fibrous tissue and chronic inflammation (macrophages). Inflammation is not intense. Some mesh fibers are associated with small amounts of compact fibrin. No PMNs; few MNGC. Most of tissue is hyalinized or paucicellular; most have spindle-cells consistent with fibroblasts. Tissues polarize consistent with type I collagen (regular periodicity consistent with 640 nm). A few small areas of hyalinization are not bi-refringent consistent with altered glycosylated collagen, elastosis, or amyloid (tissues were examined prior to congo red staining of S08-37794). There are dots around the hyalinized areas. Hyalinized foci are not associated with mesh fibers.

UCLA: S12-18948 (Defense slides)

A1-2: Fibrous tissue with diffuse cautery artifact.
A1-3: Fibrous tissue with mesh fibers, chronic inflammation, MNGC, and bony metaplasia (small foci). There were multiple blood vessels (both patent and occluded) with amorphous hyaline material in the vessel walls and adventitia, identical to uterine vessels with confirmed amyloid deposition. Similar amorphous tissue was also present in the stroma. The slides were similar to the Plaintiff's set of slides.

Conclusions:

The tissue response to PROLIFT Ethicon Mesh is not unusual or unique. It is similar to the response secondary to implantation of all foreign materials used for tissue support including sutures (mono- and polyfilament), Dacron, PTFE, and bio-materials that I have studied. Foreign bodies, and specifically mesh of all types and pore size, elicit fibrosis with ingrowth of type I collagen between the mesh pores in order to incorporate the mesh into the tissue for biological support(and in the case of vascular grafts, to prevent blood vessel leakage). Fibrosis, regardless of whether it is secondary to traumatic or iatrogenic injury, or a response to tissue necrosis or damage, elicits a chronic inflammatory response in association with the maturation of the collagen fibers. The development of collagen, including that secondary to the use of mesh, leads initially to granulation tissue (capillaries and fibroblasts, with deposition of pro-collagen, immature collagen (type III), and finally mature type I collagen over time. This process of collagen being secreted by fibroblasts and maturing is always associated with inflammation. During granulation tissue there are PMNs and mononuclear cells; as granulation tissue evolves into fibrosis and neo-vasculature, the inflammatory component consists of mononuclear cells (lymphocytes, monocytes, plasma cells, and variable eosinophils). If the fibrosis develops in response to a foreign body, including mesh implantation, then the inflammatory response includes reactive macrophages, and MNGC (with both derived from monocytes). If foreign bodies are present, the inflammatory response is chronic and persistent. It is also important, when evaluating tissue fibrosis and inflammation associated with foreign material, to recognize that patient responses are variable and unpredictable. For unknown reasons, some patients may have a much more intense response than others, even when using similar materials and surgical techniques.

Surgery, *per se*, regardless of whether foreign material is used (including sutures) will lead to tissue damage with necrosis of connective tissue and fat. There is always some degree of associated damage to blood vessels, and tissue nerve bundles, leading to entrapment. These responses also are not unique to mesh.

Erosions of foreign materials (including meshes of all types) also are not unique or atypical. It is not unusual or uncommon to observe erosion of mesh materials in inguinal or umbilical hernia repairs; with PTFE used for vascular grafts (often arterio-venous fistulae) with erosion through the skin. Erosions of any type lead to a more pronounced inflammation at the site, with both an acute and chronic inflammatory response, edema, and fibrin deposition. Thus the response seen in Ms. Wicker's tissues (S09-4582), in the

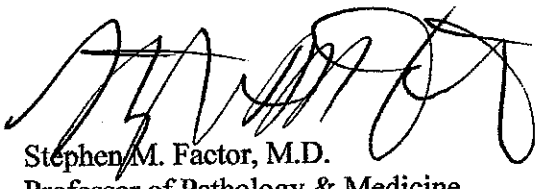
focal fragment(s) with erosion, was not unusual, and cannot be specifically ascribed to Ethicon mesh.

As demonstrated in S08-37794, Ms. Wicker had a degenerative condition before any mesh was implanted. Amyloidosis is an irreversible deposition of water-insoluble 12 nm microfibrils due to multiple different etiologies. Without special testing (e.g. serum protein electrophoresis, and immunohistochemistry, among others), it cannot be determined what was the cause of her amyloidosis. The common etiologies include that due to immunological light chains (often secondary to plasma cell dyscrasia or multiple myeloma); transthyretin (a protein often associated with cardiac deposition); or SAA (due to chronic inflammatory processes such as chronic osteomyelitis, or chronic tuberculosis). However, there are multiple additional etiologies, with varied proteins forming the amyloid deposits (one of the most widespread is the amyloid in cerebral plaques of patients with Alzheimer's disease). Virtually all amyloid, regardless of etiology, stains with Congo red with apple-green bi-refringence, or with a fluorescent dye, thioflavin. Both can only confirm the presence of amyloid, but not its subtype. Amyloid also may deposit in variable ways in tissue. It may be limited to blood vessels, and be present only in specific organs and not elsewhere (e.g. cardiac amyloid of the elderly, and brains of patients with Alzheimer's disease). In Ms. Wicker's case, the amyloid affected blood vessels, both large and small, but was present within fibromuscular stroma, and infiltrated occasional nerves. Whether it was limited to her gynecologic organs is unknown. Amyloid also may affect tissue tensile strength, as it interferes with collagen fiber cross-linking. Thus its presence in Ms. Wicker's gynecologic tissue may have contributed to the mesh erosions that developed (and also may have caused the uterine prolapse and pelvic floor weakness that led to the use of mesh, in the first place). Amyloid, by infiltrating blood vessels and leading to stenosis and focal occlusion, may have further pre-disposed her to erosion of mesh by ischemic injury of fibromuscular connective tissue, and ulceration of mucosa. Although fibromuscular connective tissue has a relatively low oxygen requirement, it still can undergo necrosis if there is inadequate blood flow. The only areas in which actual necrosis was identified was in the tissue with erosion (S09-4582). Thus, it is possible that the erosion was not specifically caused by the mesh, but was secondary to tissue damage as a result of her underlying vascular and stromal amyloidosis.

In conclusion, it is my opinion stated within a reasonable degree of medical certainty, that there is nothing unique about the response seen in Ms. Wicker's tissues to the Ethicon mesh. She did not have "intense" or remarkable inflammation, and the tissues affected by amyloid were damaged independent to the mesh emplacement. The focus of Dr. Welch's report of May 15, 2012, ascribing a "…florid chronic inflammatory response, [that] is not mild or minimal…[that] led to extensive fibrosis and scarring which has destroyed blood vessels, and trapped nerves thus likely interfering with normal tissue nourishment and function and causing pain," is not supported by the findings nor by an understanding of normal tissue responses to foreign bodies of all types. It is an overstatement of the nature and causes of the inflammation and scarring, and it completely overlooks the contributions of amyloidosis to blood vessel damage, nerve entrapment, and potential effects on tissue nourishment.

All of the statements and opinions expressed in this report have been done so within a reasonable degree of medical certainty. I reserve the right to supplement my opinions and respond to the testimony of Dr. Welch. I may also provide additional testimony in response to testimony of plaintiff's experts on subjects which are within the scope of my professional expertise.

Sincerely,



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LIST OF MATERIALS – PAMELA WICKER

I. PATHOLOGY / MEDICAL RECORDS / OTHER RECORDS

Pathology slides in the Wicker case

Disc containing pictures of pathology slides for Wicker case

Operative and Pathology Reports for Wicker

Pamela Wicker
A Different Approach, 1-35
Allan Abramson, 1
Associated Neurologists of Southern Connecticut, 1-18
Diane Berson, 1-8
Louis Bigliani, 1-20
Carl Mueller, 1-6
Christopher Linstrom, 1-9
Coastal Orthopaedics, 1-4
Columbia Orthopaedics, 1-4
Roy Davidovitch, 1-20
Yale Uro, 1-34
Michael Starr, 1
Ping Yu, 1-3
Weinstein, 1-21
Erika Schwartz, 1-59
Frank Clark Urological Center, 1-98 (medical records), 1-6 (billing)
Richard Gacek, 1-3
Gastroenterology Consultants, 1-16
Greenwich Dermatology, 1-10
Greenwich Hospital, 1-66 (medical records), 1-6 (billing)
Hip and Pelvis Institute, 1-39
Hospital for Special Surgery, 1-172 (medical records), 1-17 (billing)
James Talbot, 1-28
Long Island Jewish Medical Center, 1
Mark Goldstein, 1
Medical Center of Plano, 1
Medicare Medicaid, 1
Moore Center for Physical Therapy, 1-60
Neurology Associates of Norwalk, 1-12
New Canaan, 1-60
Norwalk Hospital, 1-6 (medical records), 1-12 (billing)
NY Orthopedics, 1-6
Obstetrics and Gynecology Associates, 22-111

Orthopaedic & Neurosurgery Specialists, 1-62
Patricia Wexler, 1-29
QFC Pharmacy, 1
Russel Huang, 1-12
Sean McCance, 1-6
Shoreline Medical, 1-110
Smith Institute, 1-34
Soundview Medical, 1-112
Stamford Cosmetic, 1-13
Stamford Hospital, 1-76 (medical records), 1-6 (billing)
UCLA Medical Center, 1-33
Urology Associates of Norwalk, 1-4
Varnum's Pharmacy, 1-52
Women's Health Care of New England, 1-37
Women's International Pharmacy, 1
Women's Specialists of Plano, 1
Yale Urogynecology and Reconstructive Pelvic Surgery, 1-87
Yale New Haven, 1-56 (medical records), 1-8 (billing)
Medical records provided by plaintiff
SSA Records, 1-3
WICKERP_GH_MDR00001-5
Pamela Wicker Complaint and Plaintiff Fact Sheet

II. DEPOSITIONS AND EXHIBITS

Pamela Wicker, 4.2.12
Pamela Wicker, 4.3.12
Richard Bercik, 3.22.12
William Wicker, 4.3.12
Kevin Benson, 4.9.12
Bradley Gross, 6.6.12
Jeffrey Gross, 10.14.10
Linda Gross, 10.12.10

Linda Gross, 10.13.10
Linda Gross, 4.10.12
Terry Gross, 6.6.12
Tyler Gross, 6.6.12
Mary Johnson, 6.8.12
Jacalynn Lake, 6.8.12
Clark Likness, 6.7.12
Emanual Trabuco, 6.28.12
Edwin Gerrish, 7.30.12
Julie Gollnick, 7.31.12
Karen Holscher, 7.31.12

Alan Lawrence, 7.30.12
Patrick Retterath, 7.30.12

III. ARTICLES / OTHER

Abdel-fattah, et al (2008) Retrospective multicentre study of the new minimally invasive mesh repair devices for pelvic organ prolapsed

Abed, et al. (2011) Incidence and management of graft erosion, wound granulation, and dyspareunia following vaginal prolapsed repair with graft materials: a systematic review

Afonso, et al. (2007) Mechanical properties of polypropylene mesh used in pelvic floor repair

Altman, et al. (2007) Perioperative Morbidity Using Transvaginal Mesh in Pelvic Organ Prolapse Repair

Altman, Daniel (2009) Sexual Dysfunctino after Trocar-Guided Transvaginal Mesh Repair of Pelvic Organ Prolapse

Altman, Daniel (2007) Short-term outcome after transvaginal mesh repair of pelvic organ prolapsed

Azevedo (2004) Understanding the Enzymatic Degradation of Biodegradable Polymers and Strategies to Control Their Degradation Rate

Bafghi, et al. (2005) Comparison between monofilament and multifilament polypropylene tapes in urinary incontinence

Barbolt (2006) - Biology of Polypropylene/Polyglactin 910 grafts

Binnebosel (2010) Impact of mesh positioning on foreign body reaction and collagenous ingrowth in a rabbit model of open incisional hernia repair

Binnebosel (2011) Biocompatibility of prosthetic meshes in abdominal surgery

Birch (2002) The role of synthetic and biological prostheses in reconstructive pelvic floor surgery

Blais (1976) The photo-oxidation of Polypropylene Monofilaments

Boukerrou (2007) Study of the biomechanical properties of synthetic mesh implanted in vivo

Boukerrou (2008) Tissue resistance of the tension-free procedure: What about healing?

Boulanger (2006) Tissue integration and tolerance to meshes used in gynecologic surgery: An experimental study

Boulanger (2008) Bacteriological Analysis of Meshes Removed for Complications after surgical management of urinary incontinence or pelvic organ prolapse

Boulanger (2008) Development of an animal model to study meshes used in genital prolapse surgery

Bracco, et al. (2005) Comparison of polypropylene and polyethylene terephthalate (Dacron) meshes for abdominal wall hernia repair: A chemical and porphological study

Bringman (2010) Hernia repair: the search for ideal meshes

Caquant, et al. (2008) Safety of Trans Vaginal Mesh procedure: Retrospective study of 684 patients

Clave, et al. (2009) Polypropylene as a reinforcement in pelvic surgery is not inert: comparative analysis of 100 explants

Cobb (2005) The Argument for lightweight Polypropylene Mesh in Hernia Repair

Cobb (2006) Textile Analysis of Heavyweight, Mid-Weight and Light-Weight Polypropylene Mesh in a Porcine Ventral Hernia Model

Cobb, Heniford (2009) Mesh Terminology 101

Cosson (2003) Mechanical properties of synthetic implants used in the repair of prolapse and urinary incontinence in women: which is the ideal materials?

Cosson (2004) A biomechanical study of the strength of vaginal tissues Results on 16 post-menopausal patients presenting with genital prolapse

Cosson (2012) Biomechanical Properties of Human Pelvic Organs

Cosson, et al. (2005) Prolift (Mesh (Gynecare) for Pelvic Organ Prolapse Surgical Treatment
Using the TVM Group Technique: A Retrospective Study of 687 Patients

Costello (2007) Characterization of heavyweight and lightweight polypropylene prosthetic mesh explants from a single patient

Costello, et al. (2007) Materials Characterization of Explanted Polypropylene Hernia Meshes

Cozad (2010) Material characterization of explanted polypropylene, polyethylene terephthalate, and expanded polytetraflouroethylene composites: Spectral and thermal analysis

Davila, et al. (2006) Clinical implications of the biology of grafts: conclusions of the 2005 IUGA Grafts Roundtable

Debodinance (1999) Tolerance of synthetic tissues in touch with vaginal scars review to the point of 287 cases

Deprest (2005) Synthetic and Biodegradable Prostheses in Pelvic Floor Surgery

Deprest (2006) The biology behind fascial defects and the use of implants in pelvic organ prolapse repair

Deprest (2007) Tensile Strength and Host Response towards Silk and Type I Polypropylene Implants Used for Augmentation of Fascial Repair in a Rat Model

Dietz (2003) Mechanical properties of urogynecologic implant materials

Dora, et al. (2004) Time Dependent Variations in Biomechanical Properties of Cadaveric Fascia, Porcine Dermis, Porcine Small Intestine Submucosa, Polypropylene Mesh and Autologous Fascia in the Rabbit Model: Implications for Sling Surgery

Dwyer (2006) Evolution of biological and synthetic grafts in reconstructive pelvic surgery

Elmer, Caroline (2009) Histological Inflammatory Response to Transvaginal Polypropylene Mesh for Pelvic Reconstructive Surgery

Elmer, Caroline (2009) Trocar-Guided Transvaginal Mesh Repair of Pelvic Organ Prolapse

Elmer, Caroline (2012) Risk Factors for Mesh Complications after Trocar Guided Transvaginal Mesh Kit Repair of Anterior Vaginal Wall Prolapse

Eth Doc (2012) PSE Study No. 08-0311 (Shrinkage)

FDA Reclass on PP Sutures

Iglesia, et al. (2010) Abstract Vaginal Mesh for Prolapse: A Randomized Controlled Trial

Jacquetin (2004) Conceptual Advances in the Surgical Management of Genital Prolapse

Jacquetin, et al. (2010) Total transvaginal mesh (TVM) technique for treatment of pelvic organ prolapse: a 3-year prospective follow-up study

Jacquetin, et al. Abstract Prospective Clinical Assessment of the Trans Vaginal Mesh (TVM) Technique for Treatment of Pelvic Organ Prolapse – One Year Results of 175 Patients

Julian (1996) The efficacy of Marlex mesh in the repair of severe, recurrent vaginal prolapse of the anterior midvaginal wall

Junge (2009) Adhesion formation of a polyvinylidenfluoride/polypropylene mesh for intra-abdominal placement in a rodent animal model

Karlovsky, et al. (2005) Synthetic Biomaterials for Pelvic Floor Reconstruction

Klinge (1998) Functional and morphological evaluation of different polypropylene-mesh modifications for abdominal wall repair

Klinge (1998) Shrinking of Polypropylene Mesh in vivo: An Experimental Study in Dogs

Klinge (1999) Foreign Body Reaction to Meshes Used for the Repair of Abdominal Wall Hernias

Klinge (2002) Functional and morphological evaluation of a low-weight, monofilament Polypropylene Mesh for Hernia Repair

Klinge (2002) Influence of implantation interval on the long-term biocompatibility of surgical mesh

Klinge (2002) PVDF as a new polymer for the construction of surgical meshes

Klinge (2002) Impact of Polymer Pore Size on the Interface Scar Formation in a Rat Model

Klinge (2002) Influence of Mesh Materials on Collagen Deposition in a Rat Model

Klinge (2003) Open Mesh Repair

Klinge (2003) Vypro II® Mesh in Hernia Repair: Impact of Polyglactin on Long-Term Incorporation in Rats

Klinge (2004) - Polypropylene in the intra-abdominal position_ Influence of pore size

Klinge (2005) Influence of polyglecaprone 25 (Monocryl) supplementation on the biocompatibility of a polypropylene mesh for hernia repair

Klinge (2005) The lightweight and large porous mesh concept for hernia repair

Klinge (2006) Light weight meshes in incisional hernia repair.

Klinge (2007) Experimental Comparison of Monofile Light and Heavy Polypropylene Meshes: Less Weight Does Not Mean Less Biological Response

Klinge (2007) Polymeric meshes induce zonal regulation of matrix metalloproteinase-2 gene expression by macrophages and fibroblasts

Klinge (2008) New polymer for intra-abdominal meshes-PVDF copolymer

Klinge (2010) Large-Pore PDS Mesh Compared to Small-Pore PG Mesh

Klinge (2011) Comparison of Long-Term Biocompability of PVDF and PP Meshes

Klinge (2012) In vivo MRI visualization of mesh shrinkage using surgical implants loaded with superparamagnetic iron oxides

Klinge (2012) Mesh biocompatibility: effects of cellular inflammation and tissue remodelling

Klinge (2012) Modified classification of surgical meshes for hernia repair based on the analyses of 1,000 explanted meshes

Klinge, et al. (2002) Impact of Polymer Pore Size on the Interface Scar Formation in a Rat
Model (ETH.MESH.02221640 – ETH.MESH.02221646)

Klosterhalfen (2003) Biological response to mesh

Klosterhalfen, et al. (2005) The lightweight and large porous mesh concept for hernia repair (ETH.MESH.02221647 – ETH.MESH.02221661)

Laroche (1995) Polyvinylidene Floride Monofilament Sutures: Can They Be Used Safely for Long-Term Anastomoses in the Thoracic Aorta?

Lucente, et al. Abstract Trans-Vaginal Mesh (TVM): An Innovative Approach to Placing Synthetic Mesh Transvaginally for Surgical Correction of Pelvic Support Defects – Peri-Operative Safety Results

Mary (1998) Comparison of the In Vivo behavior of Polyvinylidene Flouride and Polypropylene Sutures Used in Vascular Surgery

Miller, et al. (2011) Prospective Clinical Assessment of the Transvaginal Mesh Technique for Treatment of Pelvic Organ Prolapse – 5-year Results

Moalli (2012) Uniaxial biomechanical properties of seven different vaginally implanted meshes for pelvic organ prolapse

Moore, et al. (2009) Vaginal Mesh Kits for Pelvic Organ Prolapse, Friend or Foe: A Comprehensive Review

Mouritsen (2007) Vaginal pressure during daily activities before and after vaginal repair

Muhl (2008) New Objective Measurement to Characterize the Porosity of Textile Implants

Nieminen, et al. (2008) Symptom resolution and sexual function after anterior vaginal wall repair with or without polypropylene mesh

Nilsson, et al. (2008) Eleven years prospective follow-up of the the tension-free vaginal tape procedure for treatment of stress urinary incontinence

Ostergard (2011) Degradation, infection and heat effects on polypropylene mesh for pelvic implantation: what was known and when it was known

Ozog (2011) Persistence of polypropylene mesh anisotropy after implantation: an experimental study

Ozog (2011) Shrinkage and biomechanical evaluation of lightweight synthetics in a rabbit model for primary fascial repair

Pandit, et al. (2004) Design of surgical meshes – an engineering perspective

Pascual (2008) Early tissue incorporation and collagen deposition in lightweight polypropylene meshes: bioassay in an experimental model of ventral hernia

Rubod & Cosson (2008) Biomechanical properties of vaginal tissue - preliminary results

Scheidbach (2004) - In vivo studies comparing the biocompatibility of various polypropylene meshes and their handling properties during endoscopic total extraperitoneal (TEP) patchplasty

Schug-Paff (2008) A lightweight, partially absorbable mesh (Ultrapro) for endoscopic hernia repair: experimental biocompatibility results obtained with a porcine model

Sivaslioglu, et al. (2008) A randomized comparison of polypropylene mesh surgery with site-specific surgery in the treatment of cystocele

Sokol 1-Year Objective and Functional Outcomes of a Randomized Clinical Trial of Vaginal Mesh for Prolapse (VAMP) (ETH.MESH.00410458 – ETH.MESH.01823861)

Stanford, et al. (2005) The Use of Mesh in pelvic reconstructive surgery

Tsui, et al. (2005) Complications of synthetic graft materials used in suburethral sling procedures

Usher (1958) Use of marlex mesh in the repair of incisional hernias

Usher (1959) Further observations on the use of marlex mesh – a new technique for the repair of inguinal hernias

Usher (1962) Polypropylene monofilament - a new biologically inert suture for closing contaminated wounds

Williams (1982) Biodegradation of Surgical Polymers

Williams (1992) Mechanisms of Biodegradation of Implantable Polymers

Williams (1994) Biodetrioration/biodegradation of polymeric medical devices In Situ

Winters (2011) Vaginal and Abdominal Reconstructive Surgery for Pelvic Organ Prolapse – Chapter 72 in Wein 10th Ed.

Withhagen, Mariella (2010) Does trocar-guided tension-free vaginal mesh (Prolift) repair provoke prolapse of the unaffected compartments?

Withagen, Mariella (2011) Risk Factors for Exposure, Pain, and Dyspareunia after Tension-Free Vaginal Mesh Procedure

Woodruff (2008) Histologic Comparison of Pubovagianl Sling Graft Materials A comparative Study

Gynecare Gynemesh PS Nonabsorbable Prolene Soft Mesh IFU

Gynecare Prolift IFU dated 2004 (Exh. 10) ETH-00295 – ETH-00300

Gynecare Prolift IFU dated 2009 (Exh. 13) ETH-10977 – ETH-10983

Anatomic Overview of Prolift Anterior and Posterior Procedure

Gynecare Prolift Pelvic Floor Repair Systems Procedure DVD

TVT IFUs

Gynemesh PS A New Mesh for Pelvic Floor Repair – Early Clinical Experience

Gynecare Prolift Pelvic Floor Repair System Surgical Technique Guide

Ethicon Memo to R. Roussesau from Thomas Barbolt dated 12/2/99 re: Biocompatibility Risk Assessment for Soft PROLENE Mesh

Ethicon Report, PSE Accession No. 00-272, Project No. 48010 Design Verification: Evaluation of Visibility, Hardness, Resistance to Cannula Damage, and Fixation Properties of Soft Prolene Mesh ETH.MESH00220901 – 0911

Ethicon March 5, 2001 Memo to Prolene Soft Mesh Team re: Prolene Soft Mesh Validation Completion Report for Pre and Intra-Operative Usage from Mark Mooney Ethicon Final Report PSE Accession No. 00-0035 An Exploratory 91-day Tissue Reaction Study of Polypropylene-Based Surgical Mesh in Rats (PSE ACC. NO. 00-0035) dated 7/11/01

Ethicon December 2, 2001 Memo to Maggie D'Aversa from David Stoloff re: Gynemesh Prolene Soft Mesh – Preclinical Functionality Testing Strategy ETH.MESH.00220875 – 0877

Ethicon Final Report PSE Accession No. 01-0321, Project No. 48010 A 28-day Tissue Reaction Study of Prolene Polypropylene Mesh and Autoclaved Prolene Polypropylene Mesh Implanted Intramuscularly and Subcutaneously in Rats dated 5/23/02 – ETH.MESH02216602 – 6611

Ethicon Final Report PSE Accession No. 02-0079 14-day Adhesion Prevention Study of Interceed Fabric, PDS or POE VI-Based Films on Prolene-Soft, Pronova, or Vypro Mesh, and Competitive products in the Rabbit Sidewall Model with Peritoneal Defects dated 10/28/02 – ETH.MESH.021338843 – 3861

Ethicon Report PSE Accession No. 02-0579 Project No. 48010, Histological Evaluation and Comparison of Mechanical Pull Out Strength of Prolene Mesh and Prolene Soft Mesh in a Rabbit Model dated 3/5/03. First page only numbered 0300241

Ethicon Report dated 1/19/05 Biocompatability Risk Assessment for Gynecare PROLIFT Total Pelvic Floor Repair System ETH.MESH.01310817 - ETH.MESH.01310829

Ethicon Completion Report: BE-2004-1606 Design Verification for the Gynecare Prolift Kit – Interface, Human Factors, Function, and Clinical Requirements dated 1/27/05 ETH.MESH.01310776 – 0812

Clinical Study Report Evaluation of the TVM technique for treatment of genital prolapse dated 6/27/06 – Clinical assessment of feasibility, complications and effectiveness at twelve months, three years and five years of the TVM technique for genital prolapse ETH.MESH.00012009 - ETH.MESH.00012089

Clinical Study Report Evaluation of the TVM technique for treatment of genital prolapse dated 6/28/06 – Clinical assessment of the TVM technique for treatment of genital prolapse. Final report of 12-month evaluation. ETH.MESH.00012090 - ETH.MESH.00012163

Final Report PSE Study No. 08-0311; Project No 67624 – A 6-month Pilot Study to Evaluate Matrix Materials in a Rabbit Subcutaneous Implantation Model dated 2/24/12

Chart comparing Ethicon, AMS and Bard's products by Characteristic, Area Weight, Largest Pore Size (n=5), Porosity, Bending Stiffness-Body, and Burst Pressure – Body

Ethicon Performance Evaluation Technical Report Assessment of Competitor Pelvic Floor Repair Meshes, Version 1 Study Number CPC-2006-0552 ETH.MESH.02181321 – 1337

International Urogynecological Association: The Usage of Grafts in Pelvic Reconstructive Surgery Symposium 2005

Uwe Klinge Expert Report

Thomas Muhl Expert Report

Thomas Mang Expert Report

Donald Kreutzer Expert Report

William Welch Expert Report

Michael Margolis Expert Report on Wicker

Ronni Seltzer Expert Report on Wicker

Claire Serrato Expert Report on Wicker

Ann Weber Expert Report on Wicker

William Welch Expert Report on Wicker

Stephen M. Factor, M.D.

October, 2012

CURRICULUM VITAE

Name: Stephen Michael Factor, M.D.

Date of Birth: October 28, 1942

Place of Birth: New York, NY

Nationality: USA

Present Title: Professor of Pathology and Professor of Medicine (Cardiology) with tenure

Board Certification: Anatomic and Clinical Pathology, 1975

Licensure: New York State, #108706, 1971
New York State Licensed Laboratory Director

EDUCATION:

Queens College of the City University of New York, NY, B.A., 1964
Albert Einstein College of Medicine, Bronx, NY, M.D., 1968

HONORS:

Albert Einstein College of Medicine, Bronx, NY:

Alpha Omega Alpha Honor Society (election Junior year)	1967
Abraham and Joseph Spector Fellowship in Pathology	1978-present
Leo M. Davidoff Society for excellence in teaching	1988
Tenured appointment	1989
First recipient, Harry Eagle Award for Outstanding Basic Science Teaching	1995
Distinguished Alumnus (selected from over 8,000 graduates)	1998

National:

Fellow, American College of Cardiology	1983
Fellow, New York Cardiological Society	1985
Fellow, College of American Pathologists	1986
President, Society for Cardiovascular Pathology	1988-1989
Editor-in-Chief and Founding Editor, CARDIOVASCULAR PATHOLOGY	1991-2001
Fellow, Wildlife Conservation Society	1999-2002

CLINICAL AND ADMINISTRATIVE RESPONSIBILITIES:

Jacobi Medical Center (formerly Bronx Municipal Hospital Center), Bronx, NY

Director, Department of Anatomic Pathology	1985-1997
Member, Executive Committee, Medical Board	
Attending Pathologist	
Chairman, Department of Pathology	1997-
Chairman, Search Committee for Chairman, Department of Surgery	2010-2011
Member, Executive Committee, New York Medical Associates (NYMA)	

PROFESSIONAL EXPERIENCE:

University of Michigan Hospitals, Ann Arbor, MI

Department of Surgery	
Intern	1968-1969
Resident	1969-1970

Albert Einstein College of Medicine and Affiliated Hospitals,
Bronx Municipal Hospital Center and Weiler Hospital of the Albert Einstein College of Medicine,
Bronx, NY

Department of Pathology	
Resident, Anatomic and Clinical Pathology	1970-1971

United States Army Medical Corps	1971-1973
Captain (1971), and Major (1972-1973)	
Martin Army Hospital, Fort Benning, GA	
Chief, Anatomic Pathology Service	1972-1973

Homer Cobb Memorial Hospital, Phenix City, AL	
Visiting Pathologist	1972-1973

Albert Einstein College of Medicine and Affiliated Hospitals,
Bronx Municipal Hospital Center and Weiler Hospital of the Albert Einstein College of Medicine,
Bronx, NY

Department of Pathology	
Resident, Anatomic and Clinical Pathology	1973-1975
Chief Resident	1974-1975

Albert Einstein College of Medicine, Bronx, NY

Department of Pathology	
Assistant Instructor	1974-1975
Assistant Professor	1975-1980
Associate Professor	1980-1985
Professor	1985
Tenured appointment	1989
Vice Chairman for Anatomic Pathology	1993-1995

Department of Medicine

Associate Professor, Division of Cardiology	1987
Professor, Division of Cardiology	1989
Tenured appointment	1989

MEDICAL SCHOOL SERVICE:

Albert Einstein College of Medicine, Bronx, NY:

Student-Faculty Senate, elected Senator	1976-1981
	1982-1986
	1988-1990
	1990-1992
	1993-1995
Student Promotions Committee	1978-1998
Dean's Advisory Committee on the Electron Microscopy Center	1980-1981
Space Committee	1983-1984
Committee on Appointments and Promotions, Professors	1985-1990
Co-chairman	1988-1989
Chairman	1989-1990
Search Committee, Chairman Physiology and Biophysics	1988-1991
Search Committee, Chairman Cardiothoracic Surgery	1988-1990
Chairman, Subcommittee for Institutional Self-Study, Clinical Departments, LCME	1990-1991
Educational Policy and Planning Committee	1991-1995
Co-chairman	1992-1995
Tenure Committee	1996-1999
Division of Education, Co-chairman	1996-2000
Search Committee, Chairman Internal Medicine	1998-1999
Division of Education, Executive Committee	2000-present
Medical School Student Admission Committee	1977-present
Co-chairman	1987-2010
Basic Science Course Leaders Committee	2003-present
Scientific Foundations of Medicine Committee	2003-present

WITHIN THE DEPARTMENT OF PATHOLOGY:

Chairman, Resident Affairs Committee	1976-1983
Chairman, Resident Selection Committee	1983-1985
Course Leader & Primary Lecturer in Cardiovascular Pathology and Medicine	1976-present
Senior Faculty Advisory Committee	1986-1993
Steering Committee	1993-1995

INVITED LECTURES & PROGRAM CHAIRMANSHIPS (SELECTED): 1983-present

Blenheim Conference on Ischemic Heart Disease
Blenheim Palace, England
Invited participant-1983

Chinese Academy of Medical Sciences
Peoples Republic of China
Invited lecturer, 10 Medical Schools-1985

Third Antwerp-La Jolla-Kyoto Research Conference on Cardiac Function
Kyoto, Japan
Invited participant, and Session Chairman-June, 1987

Fourth World Congress for Microcirculation
Tokyo and Osaka, Japan
Invited participant and Session Chairman-July-August, 1987

International Society for Heart Research
European Division, Budapest, Hungary
Invited participant and Session Chairman-September, 1987

Inflammatory Heart Disease
Snowmass, CO
Invited participant-July, 1988

International Society for Heart Research
European Division, Oxford, England
Session Chairman-September, 1988

American Heart Association, 61st Annual Scientific Session
Washington, D.C.
Session Co-chairman-November, 1988

NIH Conference on Modeling in Biomedical Research
Invited speaker-May, 1989

International Symposium on the Diabetic Heart
Tokyo, Japan
Invited speaker and Session Chairman-October, 1989

American Heart Association, 62nd Annual Scientific Session
New Orleans, LA
Session Co-Chairman-November, 1989

Conference on Diabetes

Montpelier, France
Invited speaker-July, 1990

University of Pennsylvania, Department of Cardiothoracic Surgery
Philadelphia, PA
Invited speaker-August, 1990

Endocrines and the Heart
Brussels, Belgium
Invited speaker-October, 1990

Frontiers in Heart Failure
Whistler, British Columbia
Invited speaker-February, 1991

Society for Cardiovascular Pathology
Chicago, IL
Invited speaker-March, 1991

Chairman, Mini-Symposium on Cardiovascular Pathology, FASEB
Atlanta, GA-April, 1991

Second International Symposium on Myocarditis
Airlie, VA
Invited speaker-May, 1991

International Symposium on Idiopathic Dilated Cardiomyopathy
Baden-Baden, Germany
Invited speaker-January, 1992

Cellular Abnormalities Associated with Cardiomyopathies in Animals
Tokyo, Japan
Invited Speaker
Member, International Advisory Committee-May, 1992

Symposium on Ischemic Heart Disease International Academy of Pathology
Madrid, Spain
Invited Speaker-October, 1992

Second International Cardiovascular Pathology Course University of Toronto
Invited Speaker-June, 1992

Third International Symposium on the Pig Model for Biomedical Research (Hypertrophic Cardiomyopathy)
Taipei, Taiwan
Invited Speaker-November, 1992

American Physiology Society (FASEB)
Symposium Speaker-April, 1993

International Society for Heart Research (ISHR)
Symposium Speaker-June, 1993

National Taiwan University, Taiwan
Kaohshiung Medical College, Taiwan
Chinese University of Hong Kong
Invited Lecturer-October, 1993

XIIth World Congress of Cardiology
Berlin, Germany
Invited Speaker-September, 1994

XXth International Congress of the International Academy of Pathology
Hong Kong
Symposium Chairman and Organizer-October, 1994

Congress of the Italian Society of Cardiology
Rome, Italy
Invited Lecturer and Honoree of the Cardiovascular Pathology Group-December, 1994

American Society of Investigative Pathology
Atlanta, GA
Symposium Co-chairman and Lecture-April, 1995

Chagas' Heart Disease Symposium
Milan, Italy
Invited Speaker-June, 1995

Symposium on Hypertensions and Diabetes Mellitus
Budapest, Hungary
Invited Speaker-July, 1995

Dedication of Cardiovascular Center, Pig Research Institute of Taiwan
Maioli, Taiwan
Keynote Speaker-October, 1995
Keystone Symposium, Immunologic Aspects of Cardiovascular Disease

Invited Speaker-January, 1997

International Society for Heart Research
Symposium Co-chairman
Vancouver-July, 1997

US & Canadian Academy of Pathology
Cardiovascular Pathology Symposium
Boston, MA
Invited Speaker-March, 1998

Oklahoma University Health Sciences Center
Oklahoma City, OK
Invited Speaker-November, 1998

Heart Failure Society of America
San Francisco, CA
Invited Speaker-September, 1999

Curriculum Committee: Diabetes for the Cardiovascular Specialist
Atlanta, GA
Invited Speaker and Participant, November, 1999

US & Canadian Academy of Pathology Cardiac Case Conference
Chicago, IL
Invited Speaker, February, 2002

OTHER:

NIH Special Study Section, Ad Hoc Member 1984

National Panel on Definition and Diagnosis of Myocarditis
Invited participant 1984

Consultant and Panel Pathologist
Multicenter Myocarditis Treatment Trial 1986-1994

Site Visitor, Massachusetts General Hospital
Ischemia SCOR Grant 1986-1987

NIH (NHLBI), Cardiovascular A Study Section
Ad Hoc Member 1990

NIH Parent Review Committee, Atherosclerosis SCOR
(including chairing site visit) 1991

NIH (NHLBI) Special Study Section
Cardiovascular Disease in Blacks and Women 1992

NIH (NHLBI) Reverse site visit member
Ischemia SCOR 1994

NIH (NHLBI) Ad Hoc Member, Cardiovascular B Study Section 1996

NIH (NHBLI) Member, SCOR Study Section 1996

American Heart Association, Committee on Scientific Sessions
Program, Circulation Council 1996

NIH (NHLBI) Special Emphasis Panel
Genesis of Cardiomyopathy with HIV Infection and Alcohol Abuse 1999

Mortality and Morbidity Panel, REMATCH Trial- Left Ventricular Assist Device
(LVAD), Columbia-Presbyterian 2000-

PROFESSIONAL SOCIETIES:

Federation of American Societies for Experimental Biology (AAP)
Fellow, American College of Cardiology
Fellow, College of American Pathologists
New York Pathological Society - Trustee 1990-1994
New York Pathologists Club
New York and American Heart Association
American Heart Association Council on Basic Science
Fellow, The New York Cardiological Society
International Academy of Pathology, North American Division
International Society for Heart Research, American Division
International Association for Cardiac Biological Implants Society for Cardiovascular Pathology
Society for Cardiovascular Pathology (Founding Member)
- Steering Committee and Chairman of Governance Committee 1986-1987
- Vice President and President-elect 1987-1988
- President 1988-1989
- Chairman, Publications Committee 1989-1990
- Immediate Past President and Member of Executive Board 1989-1991
- Member of Executive Board, ex officio 1991-present

Association of Directors of Anatomic and Surgical Pathology 1993-2004

EDITORIAL ACTIVITIES:

1. Editorial Boards

The Journal of the American College of Cardiology	1986-1991
The American Journal of Cardiovascular Pathology	1986-1996
The American Journal of Pathology	2008-

2. Editor-in-Chief, Cardiovascular Pathology — 1991-1996, 1997-2001

3. Ad Hoc Manuscript Reviewer for:
   - American Journal of Pathology
   - Circulation
   - Circulation Research
   - American Journal of Physiology
   - Diabetes
   - Microvascular Research
   - Journal of The American College of Cardiology
   - Basic Research in Cardiology
   - American Journal of Cardiology
   - Journal of Molecular and Cellular Cardiology
   - Laboratory Investigation
   - Research Communications in Chemical Pathology and Pharmacology
   - New England Journal of Medicine
   - Life Sciences Journal
   - Journal of Clinical Investigation

OTHER REVIEWS:

External Reviewer, grant applications to:
- Heart and Stroke Foundation of Canada
- British Columbia Health Care Research Foundation

American Heart Association (abstracts, Scientific Session)	1988-present
American College of Cardiology (abstracts, Scientific Session)	1989-present
Academic Consultant in Pathology to Columbia University Press, Publisher of The Columbia Encyclopedia	1990-1993

MAJOR RESEARCH INTERESTS:
- Cardiomyopathy (clinical and animal models)
- Diabetic and hypertensive heart disease
- Myocardial ischemia and infarction (experimental and clinical)
- Cardiac microcirculation
- Myocardial connective tissue matrix
- Atherosclerosis
- Pulmonary circulation

GRANT SUPPORT:
NIH #HL-20426 MYOCARDIAL FUNCTION IN DIABETES MELLITUS
PI: EH Sonnenblick
9/1/81-3/31/84
SM Factor: 12% effort

NIH #HL-23171 CORONARY CIRCULATION IN MYOCARDIAL ISCHEMIA
PI: ES Kirk
7/1/78-6/30/84
SM Factor: 20% effort

NIH #HL-18824 MECHANISMS OF HEART FAILURE IN THE MYOPATHIC HAMSTER
PI: EH Sonnenblick
4/1/79-3/31/84
SM Factor: 7% effort
7/1/84-6/30/87 Total amount of grant: $1,104,002
SM Factor: 25% effort

NIH #HL-29812 MICROVASCULAR DETERMINANTS OF FOCAL MYOCARDIAL NECROSIS
PI: SM Factor
7/1/83-6/30/86 Total amount of grant: $226,099
SM Factor: 20% of effort

NIH #HL-33240 HEART FAILURE IN HYPERTENSIVE DIABETIC ANIMALS
PI: FS Fein
2/1/84-11/30/87 Total amount of grant: $372,856
SM Factor: 5% of effort

NIH #HL-35882 PATHOGENESIS OF CARDIOMYOPATHY
PI: M Wittner
12/1/85-11/30/88
SM Factor: 5% of effort

NIH #HL-23171 CORONARY CIRCULATION IN MYOCARDIAL ISCHEMIA
PI: R Forman
7/1/84-6/30/87 Total amount of grant: $382,959
SM Factor: 10% of effort

NIH #HL-34744-01 IMMUNOSUPPRESSIVE THERAPY FOR BIOPSY-PROVEN MYOCARDITIS
PI: JW Mason
7/1/86-6/30/89 Total amount of grant: $4,718,460 (grant extended 1990) Consultant
SM Factor: 2 meetings yearly

NIH #HL-37412-01 PROGRAM PROJECT: MECHANISMS OF MYOCARDIAL DYSFUNCTION AND FAILURE
PI: EH Sonnenblick
9/30/88-9/29/93 Total amount of grant: $4,845,894
SM Factor, PI Project #3, 9/30/91-9/29/92 $130,697

NIH #HL-27219-11 THE CORONARY CIRCULATION AND MYOCARDIAL ISCHEMIA
PI: C Eng
7/1/88-6/30/91 Total amount of grant: $439,714
SM Factor: 10% of effort
7/1/93-6/30/94 (Subcontract: Total Direct Amount $19,948)

NIH # HL-07071 (Training Grant) CARDIOVASCULAR PHYSIOLOGY AND PATHOPHYSIOLOGY
PI: RS Aronson
7/1/85-6/30/90 Annual Direct Costs: $99,614

NY Heart Association, MEDICAL STUDENT RESEARCH FELLOWSHIP
PI: SM Factor
7/92-6/95

NIH #A-3312-01 GENETIC BASIS OF THE PATHOLOGIC ANTI-MYOSIN RESPONSE
PI: B Diamond
7/1/94-6/30-98 Total amount of grant: $1,017,990
SM Factor: 10% of effort

NY Heart Association, MEDICAL STUDENT RESEARCH FELLOWSHIP
PI: SM Factor
7/94-6/97

NIH #1R01AR 43018, GENETIC BASIS OF THE PATHOLOGIC ANTI-MYOSIN RESPONSE
PI: B Diamond
6/23/95-4/30/99 Annual Direct Costs: $12,500
SM Factor: 2% of effort

PERSONAL:

Married to the former Sandra Helene Basner, M.S., J.D.
Children: Jason Robert, J.D.
Rachel Elizabeth, M.D.
Home Address: 19 Dan Beard Lane West Redding, CT 06896

PUBLICATIONS:

1. Hall JW, Factor SM, Cerny JC: Traumatic renal artery aneurysm in a solitary kidney. J Urol 107:17-20, 1972

2. Factor SM: Papillary adenocarcinoma of the endometrium with psammoma bodies. Arch Pathol 98:201-205, 1974

3. Halpern GN, Kalies DW, Factor SM, Wein AJ: Malacoplakia causing bilateral ureteropelvic junction obstruction. Urology 3:628- 631, 1974

4. Factor SM: Granulomatous pneumonitis: a result of intrapleural instillation of atabrine and talcum powder. Arch Pathol 100:499- 502, 1975

5. Friedman A, Factor SM: Correlation conferences in radiology and pathology: calcified upper abdominal mass. NY State J Med 76:1320-1323, 1976

6. Lutzker L, Factor SM: The effects of water soluble contrast agents on colon mucosa. Radiology 118:545-548, 1976

7. Factor SM, Turi G, Biempica L: Primary cardiac neurilemmoma. Cancer 37:883-890, 1976

8. Factor SM: Intramyocardial small vessel disease in chronic alcoholism. Am Heart J 92:561-575, 1976

9. Coltoff-Schiller B, Goldfischer S, Wolinsky H, Factor SM: Lipid accumulation in human aortic smooth muscle lysosomes. Am J Pathol 83:39-44, 1976

10. Factor SM, Biempica L, Ratner I, Ahuja KK, Biempica S: Carcinoma of the breast with multinucleated reactive stromal giant cells. Virch Arch Pathol A 374:1-12, 1977

11. Factor SM, Biempica L, Goldfischer S: Intralysosomal accumulation of lipid in the atherosclerosis of chronic organ transplantation. Arch Pathol Lab Med 101:474-477, 1977

12. Puri S, Farmer P, Factor SM: Sclerosing mediastinitis due to aspergillus. NY State J Med 77:774-777, 1977

13. Pasternak BM, Rosen S, Sanson L, Factor SM: Progressive occlusive thromboarteriopathy. Angiology 29:705-712, 1978

14. Factor SM, Biempica L, Winn RM: The histiocytic origin of the multinucleated cells in myeloma kidney. Hum Pathol 9:114-120, 1978

15. Factor SM: Endocardial fibroelastosis: myocardial and vascular alterations associated with viral-like nuclear particles. Am Heart J 96:791-801, 1978

16. Factor SM, Sonnenblick EH, Kirk ES: Histological border zone of acute myocardial infarction: islands or peninsulas? Am J Pathol 92:111-124, 1978

17. Factor SM, Goldfischer S, Biempica L: Coronary intimal sclerosis in Morquio's syndrome. Virch Arch Pathol A 379:1-10, 1978

18. Strobeck JE, Factor SM, Bhan A, Sole M, Liew CC, Fein F, Sonnenblick EH: Hereditary and acquired cardiomyopathies in experimental animals: mechanical, biochemical, and structural
features. Ann NY Acad Sci 317:59-88, 1979

19. Frishman W, Factor SM, Jordan A, Hellman C, Elkayam U, Lejemtel T, Strom J, Unschuld H, Becker R: Right atrial myxoma: unusual clinical presentation and atypical glandular histology. Circulation 59:1070-1075, 1979

20. Factor SM, Frishman W: Sudden death in a narcotic addict four months following aortic valve replacement. (CPC). Am Heart J 98:233-242, 1979

21. Koss J, Factor SM: Diabetes mellitus, malabsorption, and congestive heart failure in a middle-aged man. A case of thesaurosclerosis. (CPC). Am Heart J 98:77-787, 1979

22. Herskowitz A, Factor SM: Duplication of the mitral valve, with a discussion of the embryogenesis of AV valve duplication. NY State J Med 70:260-263, 1979

23. Lejemtel T, Factor SM, Koenigsberg M, O'Reilly M, Frater R, Sonnenblick EH: Mural vegetations at the site of endocardial trauma in bacterial endocarditis complicating idiopathic subaortic stenosis. Am J Cardiol 44:569-574, 1979

24. Okun EM, Factor SM, Kirk ES: End-capillary loops in the heart: An explanation for discrete myocardial infarctions without border zones. Science 206:565-567, 1979

25. Ongseng F, Chervu LR, Kogan SJ, Factor SM, Levitt SB, Blaufox MD: Static testicular imaging utilizing 201 Tl. Invest Urol 16:451- 452, 1979

26. Factor SM, Reichel J: Primary pulmonary hypertension. (CPC). Am Heart J 99:789-798, 1980

27. Herskowitz A, Cho S, Factor SM: Syphilitic coronary arteritis. NY State J Med 80:971-974, 1980

28. Factor SM, Minase T, Sonnenblick EH: Clinical and morphological features of human hypertensive-diabetic cardiomyopathy. Am Heart J 99:446-458, 1980

29. Factor SM, Okun EM, Minase T: Capillary microaneurysms in the human diabetic heart. N Eng J Med 302:384-388, 1980

30. Factor SM: Microvascular injection of the human heart. Med Radiogr Photogr 56:cover (and accompanying article), 1980

31. Factor SM, Okun EM, Kirk ES: The histological lateral border of acute canine myocardial infarction: a function of the microcirculation. Circ Res 48:640-649, 1981

32. Tanowitz H, Davies P, Factor SM, Minase T, Herskowitz A, Wittner M: Comparison of choline acetyl transferase activity and morphology in susceptible and resistant inbred mice infected with the Brazil strain of T. cruzi. Exp Parasitol 51:269-278, 1981

33. Factor SM, Rubin K, Frishman W: Adult respiratory distress syndrome one month following myocardial infarction. NY State J Med 81:226-234, 1981

34. Factor SM, Bhan R, Minase T, Wolinsky H, Sonnenblick EH: Hypertensive-diabetic cardiomyopathy in the rat: an experimental model of human disease. Am J Pathol 102:219-228, 1981

35. Factor SM: Intramural pathology in the diabetic heart: interstitial and microvascular alterations. Mt Sinai J Med 49:208-214, 1981

36. Koenigsberg M, Factor SM, Cho S, Herskowitz A, Nitowsky H, Morecki R: Fetal Marfan's syndrome: prenatal ultrasound diagnosis with pathological confirmation of skeletal and aortic lesions. Prenat Diag 1:241-247, 1982

37. Factor SM, Kirk ES: Microcirculatory determinants of infarct dimensions. In, MICRO-CIRCULATION OF THE HEART, (eds. H Tillmanns, W Kubler, H Zebe). Springer-Verlag, Berlin, 1982, pp 141-148

38. Sonnenblick EH, Factor SM, Strobeck JE, Capasso J, Fein F: The pathophysiology of heart failure: the primary role of microvascular hyper-reactivity and spasm in the development of congestive cardiomyopathies. In, CONGESTIVE HEART FAILURE: CURRENT RESEARCH AND CLINICAL APPLICATIONS, (eds. E Braunwald, MB Mock, J Watson). Grune & Stratton, NY, 1982, pp 323-327

39. Factor SM, Minase T, Cho S, Dominitz R, Sonnenblick EH: Microvascular spasm in the cardiomyopathic Syrian hamster: a preventable cause of focal myocardial necrosis. Circulation 66:342-354, 1982

40. Factor SM, Cho S, Sonnenblick EH: Diabetic heart disease: microvascular abnormalities in clinical and experimental cardiomyopathy. In, ADVANCES IN PATHOLOGY, (ed. E Levy). Pergamon Press, Oxford, 1982, pp 323-327

41. Factor SM, Sonnenblick EH: Hypothesis: is congestive cardiomyopathy secondary to a hyper-reactive myocardial microcirculation (microvascular spasm)? Am J Cardiol 50:1149- 1152, 1982

42. Factor SM, Cho S, Sternlieb I, Scheinberg IH, Goldfischer S: The cardiomyopathy of Wilson's disease: myocardial alterations in nine cases. Virch Arch Pathol A 397:301-311, 1982

43. Gabbay S, Factor SM, Strom J, Becker R, Frater RWM: Sudden death due to cuspal dehiscence of the Ionescu-Shiley valve in the mitral position. J Thorac Cardiovasc Surg 84:313-314, 1982

44. Factor SM, Okun EM, Minase T, Kirk ES: The microcirculation of the human heart: end-capillary loops with discrete perfusion fields. Circulation 66:1241-1248, 1982

45. Matos MI, Factor SM: Hemoptysis and abdominal pain in a 74 year old man. (CPC). Einstein Quart J Biol Med 1:95-102, 1982

46. Forman R, Cho S, Factor SM, Kirk ES: Acute myocardial infarct extension into a previously preserved subendocardial region at risk in dogs and patients. Circulation 67:117-124, 1983

47. Frater RWM, Gabbay S, Shore D, Factor S, Strom J: Reproducible replacement of elongated or ruptured mitral valve chordae. Ann Thorac Surg 35:14-28, 1983

48. Factor SM, Minase T, Bhan R, Wolinsky H, Sonnenblick EH: Hypertensive-diabetic cardiomyopathy in the rat: ultrastructural features. Virch Arch Pathol A 398:305-317, 1983

49. Sonnenblick EH, Strobeck J, Capasso J, Factor SM: Ventricular Hypertrophy: Models and Methods. In, PERSPECTIVES IN CARDIOVASCULAR RESEARCH, (eds. RC Tarazi, JB Dunar). Raven Press, NY, 1983, pp 13-20

50. Hyman A, Podolsky A, Factor SM: Focal adrenal necrosis and fibrosis in a general autopsy population. New York State J Med 83:829-834, 1983

51. Factor SM, Sonnenblick EH: Microvascular spasm as a cause of cardiomyopathies. Cardiovasc Rev Rep 4:1177-1182, 1983

52. Pick P, Jean E, Horoupian D, Factor S: Xanthogranuloma of the dura in systemic Weber-Christian disease. Neurology 33:1067- 1070, 1983

53. Fein FS, Factor SM, Cho S, Miller-Green B, Carroll D, Sonnenblick EH: Catecholamine induced myocardial necrosis in experimental diabetes mellitus. Arch Pathol Lab Med 107:480-483, 1983

54. Robinson TF, Cohen-Gould L, Factor SM: Skeletal framework of mammalian heart muscle. Arrangement of inter- and pericellular connective tissue structures. Lab Invest 49:482-498, 1983

55. Sonnenblick EH, Factor SM, Lejemtel TH: The rationale for inotropic therapy in heart failure. Cardiovasc Rev Rep 4:910- 925, 1983

56. Strom JA, Gabbay S, Factor SM, Frishman WH, Frater RWM: Prospective diagnosis of a dehisced cusp of an Ionescu-Shiley pericardial xenograft valve by non-invasive methods. Med Ultrasound 7:127-131, 1983

57. Katz DA, Ben-Ezra J, Factor SM, Horoupian DS, Goldfischer S: Fatal pulmonary and cerebral fat embolism in systemic lupus erythematosus. JAMA 250:2666-2669, 1983

58. Strain JE, Grose RM, Factor SM, Fisher JD: Endomyocardial biopsy results in patients with clinically normal hearts and spontaneous ventricular tachycardia. Circulation 68:1171-1181, 1983

59. Eng C, Cho S, Factor SM, Sonnenblick EH, Kirk ES: Myocardial micronecrosis produced by microsphere embolization. Role of an alpha adrenergic tonic influence of the coronary microcirculation. Circ Res 54:74-82, 1984

60. Rose AG, Halper J, Factor SM: Pulmonary arteriopathy in Takayasu's disease. Arch Pathol Lab Med 108:664-648, 1984

61. Factor SM, Minase T, Cho S, Fein F, Capasso JM, Sonnenblick EH: Coronary microvascular abnormalities in the hypertensive-diabetic rat. A cause of cardiomyopathy? Am J Pathol 116:9-20, 1984

62. Halper J, Factor SM: Coronary lesions in neurofibromatosis associated with presumptive coronary spasm and fatal myocardial infarction. Am Heart J 108:420-422, 1984

63. Fein FS, Capasso JM, Aronson RS, Cho S, Nordin C, Miller-Green B, Sonnenblick EH, Factor SM: Combined renovascular hypertension and diabetes in rats: a new preparation of congestive cardiomyopathy. Circulation 70:318-330, 1984

64. Gabbay S, Bortolotti U, Cipolletti G, Wasserman F, Frater RWM, Factor SM: The Meadox unicusp pericardial bioprosthetic heart valve: new concept. Ann Thorac Surg 37:448-456, 1984

65. Gabbay S, Bortolotti U, Factor S, Shore DF, Frater RWM: Calcification of implanted xenograft pericardium influence of site and function. J Thorac Cardiovasc Surg 87:782-787, 1984

66. Gabbay S, Bortolotti U, Wasserman F, Factor S, Strom J, Frater RWM: Fatigue-induced failure of the Ionescu-Shiley pericardial xenograft in the mitral position: in vivo and in vitro correlation and a proposed classification. J Thorac Cardiovasc Surg 87:836-844, 1984

67. Gabbay S, Bortolotti U, Wasserman F, Tindel N, Factor SM, Frater RWM: Long-term follow-up of the Ionescu-Shiley mitral pericardial xenograft. J Thorac Cardiovasc Surg 88:758-763, 1984

68. Sonnenblick EH, Factor SM: Heterogeneous transmural blood flow and microvascular spasm as causes of heart failure in ischemic heart disease and cardiomyopathies. In, REGULATION OF CARDIAC FUNCTION, (eds. H Abe, Y Ito, M Tada, LH Opie). Japan Scientific Society Press, Tokyo, 1984, pp 191-196

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